

SEQUENCE LISTING

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<120> METHOD FOR INDUCING MAMMARY EPITHELIAL CELL
DIFFERENTIATION

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<151> 2003-09-25

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<151> 2002-09-25

<160> 31

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<210> 1
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro
1 5 10

<210> 2
<211> 30
<212> PRT
<213> Homo sapiens

<400> 2
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
1 5 10 15

Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
20 25 30

<210> 3
<211> 29
<212> PRT
<213> Bos taurus

<400> 3
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Leu
1 5 10 15

Asp Ser His Arg Ser Phe Gln Asp Lys His Gly Leu Ala
20 25

<210> 4
<211> 29
<212> PRT
<213> Sus scrofa

<400> 4
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
1 5 10 15

Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala
20 25

<210> 5
<211> 29
<212> PRT
<213> Rattus rattus

<400> 5
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
1 5 10 15

Asp Asn His Arg Ser Phe Ser Asp Lys His Gly Leu Thr
20 25

<210> 6
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 6
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
1 5 10 15

Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser
20 25

<210> 7
<211> 123
<212> PRT
<213> Homo sapiens

<400> 7
Met Ala Arg Gly Ser Ala Leu Leu Leu Ala Ser Leu Leu Ala Ala
1 5 10 15

Ala Leu Ser Ala Ser Ala Gly Leu Trp Ser Pro Ala Lys Glu Lys Arg
 20 25 30

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val
 35 40 45

Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser Lys Arg
 50 55 60

Glu Leu Arg Pro Glu Asp Asp Met Lys Pro Gly Ser Phe Asp Arg Ser
 65 70 75 80

Ile Pro Glu Asn Asn Ile Met Arg Thr Ile Ile Glu Phe Leu Ser Phe
 85 90 95

Leu His Leu Lys Glu Ala Gly Ala Leu Asp Arg Leu Leu Asp Leu Pro
 100 105 110

Ala Ala Ala Ser Ser Glu Asp Ile Glu Arg Ser
 115 120

<210> 8
 <211> 123
 <212> PRT
 <213> Bos taurus

<400> 8
 Met Pro Arg Gly Ser Val Leu Leu Leu Ala Ser Leu Leu Ala Ala
 1 5 10 15

Ala Leu Ser Ala Thr Leu Gly Leu Gly Ser Pro Val Lys Glu Lys Arg
 20 25 30

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Leu
 35 40 45

Asp Ser His Arg Ser Phe Gln Asp Lys His Gly Leu Ala Gly Lys Arg
 50 55 60

Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Ser Phe Asp Arg Pro
 65 70 75 80

Leu Ala Glu Asn Asn Val Val Arg Thr Ile Ile Glu Phe Leu Thr Phe
 85 90 95

Leu His Leu Lys Asp Ala Gly Ala Leu Glu Arg Leu Pro Ser Leu Pro
 100 105 110

Thr Ala Glu Ser Ala Glu Asp Ala Glu Arg Ser
 115 120

<210> 9
 <211> 123
 <212> PRT
 <213> Sus scrofa

<400> 9
 Met Pro Arg Gly Cys Ala Leu Leu Leu Ala Ser Leu Leu Leu Ala Ser
 1 5 10 15
 Ala Leu Ser Ala Thr Leu Gly Leu Gly Ser Pro Val Lys Glu Lys Arg
 20 25 30
 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
 35 40 45
 Asp Asn His Arg Ser Phe His Asp Lys Tyr Gly Leu Ala Gly Lys Arg
 50 55 60
 Glu Leu Glu Pro Glu Asp Glu Ala Arg Pro Gly Gly Phe Asp Arg Leu
 65 70 75 80
 Gln Ser Glu Asp Lys Ala Ile Arg Thr Ile Met Glu Phe Leu Ala Phe
 85 90 95
 Leu His Leu Lys Glu Ala Gly Ala Leu Gly Arg Leu Pro Gly Leu Pro
 100 105 110
 Ser Ala Ala Ser Ser Glu Asp Ala Gly Gln Ser
 115 120

<210> 10
<211> 116
<212> PRT
<213> Homo sapiens

<400> 10
 Met Ala Pro Pro Ser Val Pro Leu Val Leu Leu Leu Val Leu Leu
 1 5 10 15
 Ser Leu Ala Glu Thr Pro Ala Ser Ala Pro Ala His Arg Gly Arg Gly
 20 25 30
 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Val Leu His
 35 40 45
 Leu Pro Gln Met Gly Asp Gln Asp Gly Lys Arg Glu Thr Ala Leu Glu
 50 55 60
 Ile Leu Asp Leu Trp Lys Ala Ile Asp Gly Leu Pro Tyr Ser His Pro
 65 70 75 80
 Pro Gln Pro Ser Lys Arg Asn Val Met Glu Thr Phe Ala Lys Pro Glu
 85 90 95
 Ile Gly Asp Leu Gly Met Leu Ser Met Lys Ile Pro Lys Glu Glu Asp
 100 105 110
 Val Leu Lys Ser
 115

<210> 11
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 11
 Ala Pro Ala His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
 1 5 10 15

Tyr Leu Leu Gly Pro Val Leu His Leu Pro Gln Met Gly Asp Gln Asp
 20 25 30

Gly Lys Arg Glu Thr Ala Leu Glu Ile Leu Asp Leu Trp Lys Ala Ile
 35 40 45

Asp Gly Leu Pro Tyr Ser His Pro Pro Gln Pro Ser
 50 55 60

<210> 12
 <211> 60
 <212> PRT
 <213> Sus scrofa

<400> 12
 Ala Pro Val His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
 1 5 10 15

Tyr Leu Leu Gly Pro Val Leu His Pro Pro Ser Arg Ala Glu Gly Gly
 20 25 30

Gly Lys Gly Lys Thr Ala Leu Gly Ile Leu Asp Leu Trp Lys Ala Ile
 35 40 45

Asp Gly Leu Pro Tyr Pro Gln Ser Gln Leu Ala Ser
 50 55 60

<210> 13
 <211> 60
 <212> PRT
 <213> Rattus rattus

<400> 13
 Ala Pro Ala His Arg Gly Arg Gly Gly Trp Thr Leu Asn Ser Ala Gly
 1 5 10 15

Tyr Leu Leu Gly Pro Val Leu His Leu Ser Ser Lys Ala Asn Gly Gly
 20 25 30

Arg Lys Thr Asp Ser Ala Leu Glu Ile Leu Asp Leu Trp Lys Ala Ile
 35 40 45

Asp Gly Leu Arg Tyr Ser Arg Ser Pro Arg Met Thr
 50 55 60

<210> 14
 <211> 765
 <212> DNA
 <213> Homo sapiens

<400> 14
 ccacgcgtcc gggacccggc ccgcgccttc tgccccgt gcccggcccg ccatgcggtg 60
 agcgccccag gcccggcagag cccacccgac cccggccgac gcccggaccc gcccggcaga 120
 cccgcaccg caccggacc cgcacgcgtcc gaacccgggc gcaggccgac ctcaagatgg 180
 cccgaggcag cgcgcctcctt ctgcgcctcc tcctcctcgc cgcgcctt tctgcctctg 240
 cggggctctg gtcgcggcc aaggaaaaac gaggctggac cctgaacagc gcgggctacc 300
 tgctgggccc acatgccgtt ggcaaccaca ggtcattcag cgacaagaat ggcctcacca 360
 gcaaggcgga gctgcggccc gaagatgaca tgaaaccagg aagcttgac aggtccatac 420
 ctgaaaacaa tatcatgcgc acaatcattt agtttctgtc ttcttgcac ctcaaagagg 480
 cccgtgcctt cgaccgcctc ctggatctcc cgcgcgcagc ctcctcagaa gacatcgagc 540
 ggtctgaga gcctcctggg catgtttgtc tgtgtgctgt aacctgaagt caaaccttaa 600
 gataatggat aatcttcggc caatttatgc agagtcaagcc attctgttc tctttgcctt 660
 gatgttgtgt tgttatcatt taagatttt tttttttgt aattatttt agtggcaaaa 720
 taaagaatag caattaaaaa aaaaaaaaaa aaaaaaaa aaaaaa 765

<210> 15
 <211> 675
 <212> DNA
 <213> Bos taurus

<400> 15
 cttccgcgtc cccgaggccg cgccatgcgg tgagcgcccc cggccctgcc ccgacccgac 60
 tcgacggacg cgccggccccg ccgacacagg acctgcagac accccaggac ccgcagacat 120
 ccccgaccc tccggggcccc gctcaagatg cccagaggct cgcgcctctg gtcgcctcc 180
 ctgcgcctcg cagcggccct ttcagccacc ctgggcctcg gtcaccggc gaaggagaag 240
 agaggctgga ccctgaacag cgctgggtac cttctcgac cacatgcgc cgcacagccac 300
 aggtcatttc aagacaagca tggcctcgcc ggcaagcgaa aactcgagcc tgaagaccaa 360
 gcccgccag gaagcttga cagaccactg gcggagaaaca acgtcggtgc cacgataatc 420
 gagttctga ctttcctgca tctcaaagac gccggcgccc tggagcgcct gcccagtctc 480
 cccacagcag agtccgcaga agacgcgcag aggtctgtg cgggcctcccg cgcgtcggtc 540
 tccctgtgtc acgcgcagtc gtgtcccgag gaggatgccc atgcatggc aaccgcccc 600
 tccccgctgc cctgatgtc tgccgttacc atttcaggtt tttcccttt ggtcataagt 660
 ttcaagtggca aaatt 675

<210> 16
 <211> 774
 <212> DNA
 <213> Sus scrofa

<400> 16
 acacgtcgaa ggagcccgcc tgccgcgtt ccctctctgt gtcccccggg ccacgcccatt 60
 cggtagcgc cctccagccc tgccgcaccc aaccggaccc gctcccccgc cgacagccca 120
 ggacccgctg gcacccgggg accccctggc atctcagacc cgcgcaccc cggggccccgc 180
 cgacacccca agacccacccg acactccggg accccgcgtc gctcaagatg cccagaggct 240
 gccgcctctt gctggccctcc ctactcctcg ctgcgcctt ttcagccacc ctggggctcg 300
 ggtcaccgggt gaaggaaaaag agaggctgga ctctgaacag cgctggctac ttcttggc 360
 cacatgccc acgacaaccac agatcattcc acgacaagta tggccttgat ggcaagcgaa 420
 aactcgaacc cgaagacaa gccaggccgg gaggcttga cccgctgcag tcagaggaca 480
 aaggccatacg cacgataatg gagtttctgg ctttcttgcac tctcaaagag gccccggccc 540
 tggggcgccct gccccggccct ccctcgccag catcctcaga agacgcggga cagtcctgag 600
 gtggctccgg catcttcgtc tgccgttgcg aggtcccgaa gacgggtgacg gtcacgc 660

agcgaaggca gcgttaaccac ccctgtcgtc cctgcccagt gctgtgtgc tgtggtgtca 720
 gatcttcttc ctttggagc aggttgagc cgcaaaataa aaactgcagc tgct 774

<210> 17
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 17
 tgcagtaagc gaccatccag

20

<210> 18
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 18
 agcacaggac acacgtgcac

20

<210> 19
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 19
 cgccttcatc tgcaagttta

20

<210> 20
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 20
 caggacggtc tgtgcagt

18

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 21
tgccttcca gccaccatc

20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 22
gcgttaagtgg cacgcgtgag

20

<210> 23
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 23
cctggctctt tggggctttc gtg

23

<210> 24
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 24
agcgcgtaga gcgcggccac tg

22

<210> 25
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 25
tgacatcaag aagggtggta agc

23

<210> 26
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 26
aagggtggaaag agtgggagtt gctg

24

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 27
aatggccacg tagcgatcca

20

<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 28
gttagctgcag gctcagggttc c

21

<210> 29
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29
tgggccgtgg tgagcctggc ct

22

<210> 30
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 30
Pro Pro Ala Leu Ala Leu Ala
1 5

<210> 31
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 31
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Gln Gln Phe
1 5 10 15

Phe Gly Leu Met
20